european journal of obstetrics, gynecology and reproductive biology

volume 6, 1976

Editors

L.A.M. Stolte, Amsterdam - chief editor
R. Derom, Ghent
R.R. Macdonald, Leeds
Claude Sureau, Paris
K.-H. Wulf, Würzburg

Editor for book reviews:

T.K.A.B. Eskes, Nijmegen

Co-editors

Etienne-E. Baulieu, Bicêtre
Lars Ph. Bengtsson, Lund
H. Bossart, Lausanne
J. Esteban-Altirriba, Barcelona
D.V.I. Fairweather, London
Pedro de la Fuente, Madrid
Andre E. Hellegers, Washington, D.C.
Howard W. Jones, Baltimore, Md.
John B. Josimovich, Pittsburgh, Pa.
Per Kolstad, Oslo
Hans Ludwig, Essen
K. O'Driscoll, Dublin
M. Panigel, Paris
H. Schmidt-Matthiesen, Frankfurt
Gorm Wagner, Copenhagen
C.R. Whitfield, Manchester

The journal is published for the Societies of Obstetrics and Gynecology of The Netherlands and Northern Belgium.

EXCERPTA MEDICA

Advisory Board

J.W. Barents, Groningen
H. Bartels, Hannover
Fred C. Battaglia, Denver, Colo.
K. Baumgarten, Vienna
J.H. van Bemmel, Utrecht
C.H.W. de Bois, Utrecht
J. Bonte, Louvain
R. Bouters, Oostakker
I. Brosens, Louvain
J.I. de Bruijne, Amsterdam
Neville Butler, Bristol
R. Caldeyro-Barcia, Montevideo
C.B.F. Daamen, Rotterdam
F. DeRom, Ghent
E. Diczfalusy, Stockholm
Ian Donald, Glasgow
A.C. Drogendijk Jr, Rotterdam
C. van Duijn Jr, Zeist
E. Eggermont, Louvain
Uwe E. Freese, Chicago, Ill.
Fritz Fuchs, New York, N.Y.
F. Geldenhuys, Pretoria, SA
W. Gepts, Brussels
R.H. Gevers, Rotterdam
E.V. van Hall, Leiden
P.G. Hart, Utrecht
A.A. Haspels, Utrecht
Charles H. Hendricks, Chapel Hill, N.C.
A.J.M. Holmer, Oosterbeek
H.J. Huisjes, Groningen
Gilles D. Hurteau, Ottawa, Ont.
Raymond Illsley, Aberdeen
J. Janssens, Amsterdam
L.A. Joosse, Groningen
H. Jung, Aachen
O. Käser, Basel
H. van Kessel, Amsterdam
G.J. Kloosterman, Amsterdan
A. Klopper, Aberdeen
J. Kremer, Utrecht
J. Leroy, Antwerp
H.A.I.M. van Leusden, Arnhem
Brian Little, Cleveland, Ohio
J.L. Mastboom, Nijmegen
H.J. van der Molen, Rotterdam
W.M.O. Moore, Manchester
W.A. van Niekerk, Belleville, SA
A.J. Nuyens, Ottawa, Ont.
W.P. Plate, The Hague
H.F.R. Prechtl, Groningen
M. Renaer, Louvain
A.L.C. Schmidt, Rotterdam
R. Schoysman, Brussels
Georgeanna Seegar Jones, Baltimore, Md.
J.C. Seelen, The Hague
A. Sikkel, Colombo
Z.K. Štembera, Prague
J.G. Stolk, Nijmegen
M. Thiery, Ghent
P.E. Treffers, Amsterdam
Fr. Uyttenbroeck, Antwerp
A. Van Assche, Louvain
D. VandeKerckhove, Ghent
Raymond Vande Wiele, New York, N.Y.
A. Vermeulen, Ghent
H.C.S. Wallenburg, Rotterdam
Carl Wood, Sydney, N.S.W.

© EXCERPTA MEDICA 1976. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without permission in writing from the publishers.

Contents of volume 6

No. 1

M.J.N.C. Keirse, M.C.A.J.A. Hanssens, B.R. Hicks and A.C. Turnbull
Prostaglandin metabolism in placenta and chorion before and after the onset of labor 1

M. Neves-e-Castro, J. Neves da Silva, L. Meleiro de Sousa, A. Reis-Valle and L. Ferreira Vicente
Arrhenoblastoma of the ovary with virilism. A case report with hormonal study 7

L. Donangelo, P. Ezcurra, W.L. Benedetti and H. Alvarez
Lactic dehydrogenase isoenzymes in parabasal and subchorial villi of the normal human placenta: a biochemical study 17

O.P. Bleker and D.J. Mieras
Increment of the fetal biparietal diameter during normal pregnancy as determined by ultrasound 23

H. Kords, J. Potel, W. Völker and Ch. Weiss
Pharmacokinetics and endometrial and tubal tissue penetration of cefalotin and cefazolin 29

G.H. Zeilmaker and C.M.P.M. Verhamme
Second polar body formation in rat ovarian oocytes matured in vitro 35

No. 2

J.G. Schenker and W.Z. Polishuk
The role of prostaglandins in ovarian hyperstimulation syndrome 47

G. Tatra, H. Tempfer and P. Placheta
Influence of blood glucose levels on serum concentrations of pregnancy-specific protein SP-1 and HPL during the last trimester of pregnancy 53

G. Tatra, H. Tempfer and W. Gruber
Influence of 16-β-methylprednisone on serum concentrations of pregnancy-specific protein SP-1 and HPL during the last trimester of pregnancy 59

M. Ball
A prospective field trial of the 'ovulation method' of avoiding conception 63

A. Luyken-Ozolins
Full-term pregnancy in Nelson's syndrome 67

Y. Beyth, M. Periman and D. Weinstein
Fetal scalp thickness in diabetic pregnancy 71

T.M. Coltart, C. Aubrey, R.L. Thomas and M. Hipkin
A comparative trial of suprapubic versus urethral catheter following vaginal surgery 77

No. 3

A. Henri, S.L. Marcus and F. Fuchs
Tubal and uterine motility in vivo in the rhesus monkey 93

J.W. Wladimiroff, L.C. van Otterloo, H.C.S. Wallenburg and A.C. Drogendijk
A combined ultrasonic and biochemical study of fetal renal function in the term fetus 103

J. Brovetto-Cruz, C. Míguez-Wensko, Y. Sardi-Valverde, D. Ucar, J.A. Guisantes, S. Galimidi and M.A. Castellano
Chemical and biological characterization of an active substance of the human placenta 109

M.A. Castellano, S. Galimidi, C. Míguez-Wensko, A. Méndez-Tula, J.A. Guisantes, Y. Sardi-Valverde and J. Brovetto-Cruz
Biological and immunological studies of a placental gonadotropic protein 115

W.M.O. Moore, V.P. Jones and B.S. Ward
Fetal growth retardadtion in the second trimester 121

Review article
M. Renaer, I. Van de Putte and C. Vermylen
Massive feto-maternal hemorrhage as a cause of perinatal mortality and morbidity 125

No. 4

Proceedings of the Second Reinier de Graaf Symposium, August 1975, Amsterdam, The Netherlands

Foreword 145

G.T. Ross
Preovulatory determinants of human corpus luteum function 147

B.T. Donovan
Experimental aspects of corpus luteum function 157

E.B.D. Johansson
Clinical aspects of corpus luteum function 165

W.J. de Greef, J. Dullaart and C.H. Zeilmaker
Hysterectomy, decidualization, LH concentrations and corpus luteum function in the rat 169

H. Herlitz, Y. Koch, M.I. Khan and K. Ahrén
Effect of follicle-stimulating hormone on cyclic AMP levels in young corpora lutea of the rat 175

P.A. Torjesen and A. Aakvaag
The affinity and capacity of the LH receptor of the superluteinized rat ovary in relation to progesterone production 181

J. Sandow, W. v. Rechenberg and C. Jerzabek
The effect of LH–RH, prostaglandins and synthetic analogues of LH–RH on ovarian metabolism 185

J.S. Robinson, J.R.G. Challis, B.J.A. Furr, T.M. Louis and G.D. Thorburn
Is the sheep corpus luteum subject to tonic inhibition during the luteal phase of the estrous cycle? 191

R.G. Rodway, K.S. Dodson and J. Watson
Steroid secretion by isolated porcine ovarian cells during superfusion 201

N. Goncharov, T. Aso, Z. Cekan, N. Pachalia and E. Diczfalusy
Hormonal changes during the menstrual cycle of the baboon (*Papio hamadryas*) 209

F. Lehmann, I. Just-Nastansky, P.-J. Czygan and G. Bettendorf
Effects of 17α-ethinyl-19-nortestosterone (ENT) on corpus luteum function 219

A. Saure, O. Karjalainen and T. Teräväinen
The effect of synthetic gestagens on progesterone formation in vitro in human corpus luteum of early pregnancy 223

No. 5

D.M. Campbell and I. MacGillivray
Glucose tolerance before the onset of preeclampsia 235

Ph. Koninckx and P. De Moor
A rapid radioimmunoassay of human LH and HCG useful in early pregnancy problems 239

C.A.M. Jansen and H.A.I.M. van Leusden
The pattern of uterotubal insufflation in relation to ovulation 243

R.G. Sugarman, A. Hadjiev and B.S. Schifrin
Intracranial pressure and fetal heart rate patterns in a case of hydrocephaly 249

M. Vrijens, P. Defoort, M. Thiery, C. Lagrain and A. Raick
The fetal biparietal diameter 257

J. de Graaff and L.A.M. Stolte
Trends in incidence rates of cervical and endometrial cancer 265

Technical advancements

R.S.G.M. Bots, D.T. Farman and G.H.B. Broeders
Multiscan echofetography: application to the study of fetal breathing movements 271

Review article

A. Weidenbach and B.J. Klose
The histogenesis of the adenomatoid tumor of the female genital tract (including nine personal cases) 277

No. 6

V. Jandial, P. Henderson and I. MacGillivray
Placental transfer of radioactive selenomethionine in late pregnancy 295

L.-J. Van Bogaert, E. De Muylder and J.P. Staquet
Ovarian clear-cell carcinoma associated with multiple Müllerian tumors 301

G.O. Taylor, A.J.J. Nuyens, A. Himaya, S. Krzaniak and S.M. Pathak
Is term pregnancy synonymous with placental maturation? 309

I. Brosens, A. Van Assche, Ph. Koninckx, W. Heyns and R. De Hertogh
New combined oral contraceptive with incremental progestogen dosage regimen 315

G.L. Adessi, C. Goutte-Coussieu, Tran Quang Nhuan and M.F. Jayle
Variations of the excretion curves of seven urinary estrogens during late pregnancy 319

G.M. Bouw, L.A.M. Stolte, J.P.A. Baak and J. Oort
Quantitative morphology of the placenta. 1. Standardization of sampling 325

H. Schillinger
Detection of heart action and active movements of the human embryo by ultrasonic time motion techniques 333

R.S.G.M. Bots, G.H.B. Broeders and D.J. Farman
The dynamics of human fetal breathing movements; a multiscan echofetographic approach 339

Review article
A.C. Yao and J. Lind
Current concepts on respiratory and circulatory adaptation of the fetus and newborn 347